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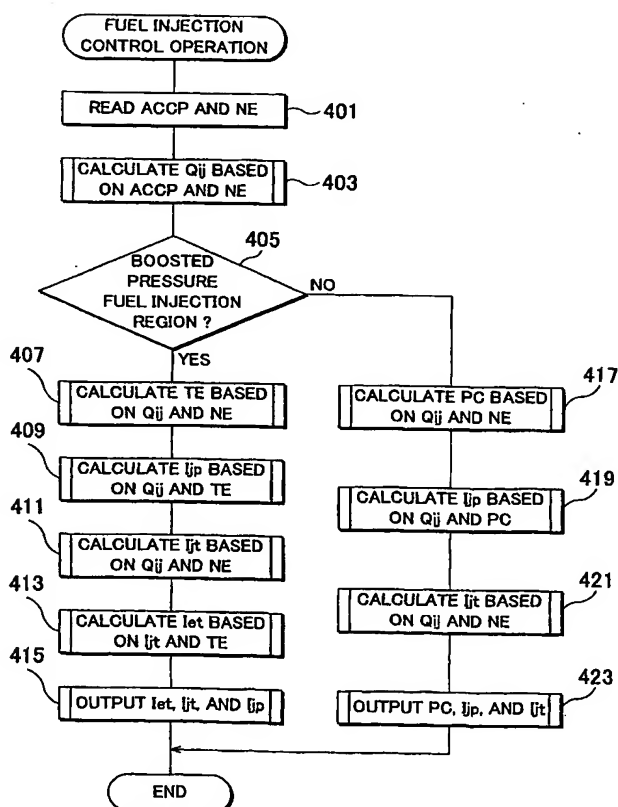
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(54) Title: **PRESSURE BOOSTING COMMON RAIL FUEL INJECTION APPARATUS AND FUEL INJECTION CONTROL METHOD THEREFOR**



(57) Abstract: A fuel injection valve (10) with a pressure boosting unit is provided in an engine (1), and boosted pressure fuel injection is performed by increasing a pressure of fuel supplied to a fuel injection valve from a common rail (3). An ECU (20) decides a pressure boosting period that is defined as a time period from when the pressure of the fuel starts to be boosted until when the fuel injection is started using a numerical table in which a fuel injection amount and an engine rotational speed are used as parameters, and sets fuel injection control parameters such as a fuel injection period and pressure boosting starting timing, based on the pressure boosting period. Since the fuel injection control parameters are set based on the pressure boosting period, the control that is performed when the boosted pressure fuel injection is performed is simplified.



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